Principles of Environmental Restoration

Techniques for Streamlining RCRA (HSWA) and CERCLA Projects

Sponsored by:

US Department of Energy (DOE)

- and -

US Environmental Protection Agency (EPA)

Agenda

Day 1	a. Introduce four principles of environmental restoration b. Discuss each principle c. Complete sample exercises for each principle
Day 2	a. Review of Day 1 b. Apply principles to environmental response design and implementation c. Second case study d. Team building concepts

Workshop objectives

- Encourage strategic thinking, problem solving, and teamwork
- Encourage project teams to identify and seize all cost and schedule cutting opportunities
- Better communication of site problems, and the rationales for proposed solutions, to interested stakeholders

Your role in this workshop

- To get the most out of this workshop:
  - Set aside "perceptions" of regulatory constraints
  - Actively participate
  - Continually assess how the course principles can be applied to your projects

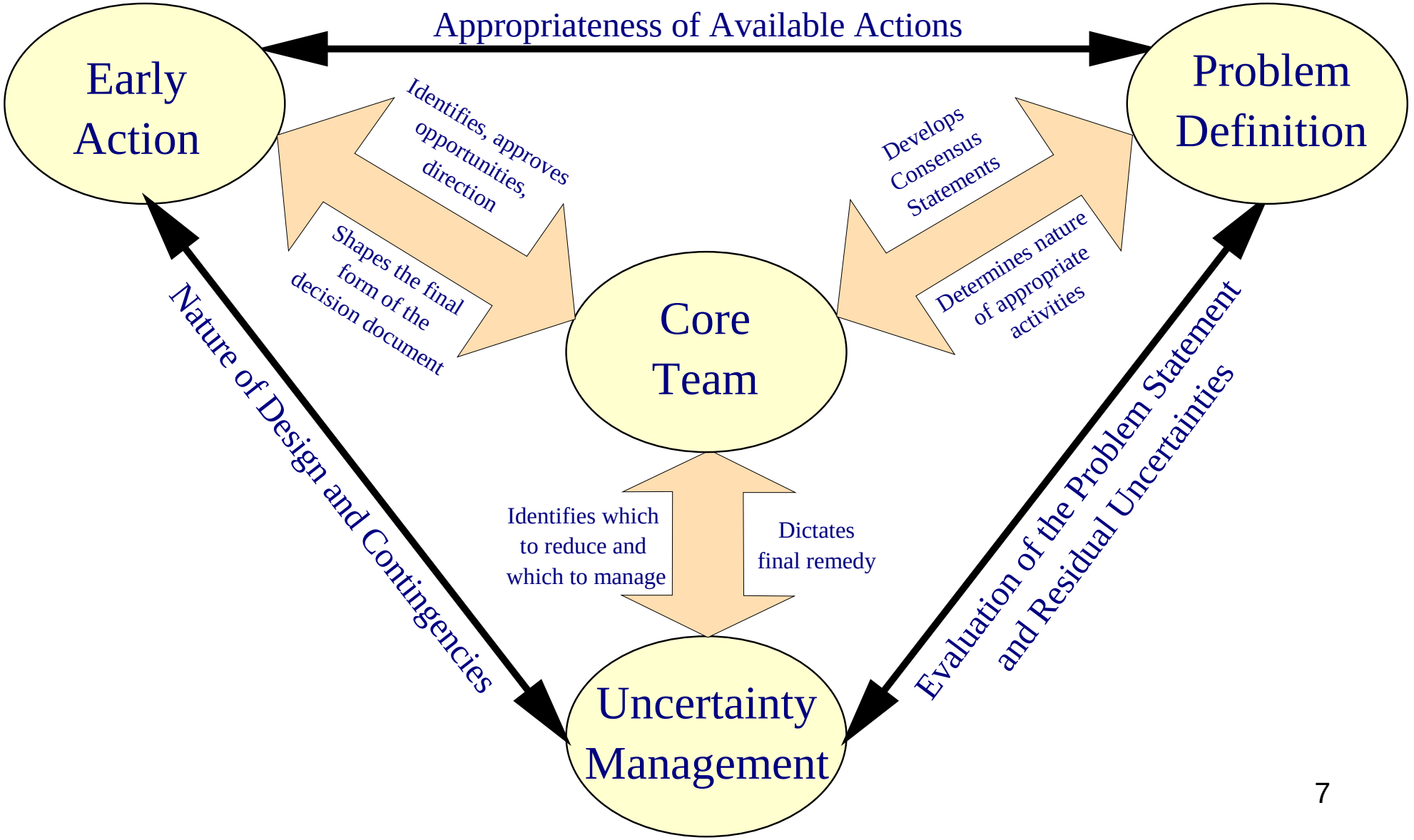
Four principles of environmental restoration

- Building an effective core team is essential
- Clear, concise, and accurate problem identification and definition are critical
- Early identification of likely response actions is possible, prudent, and necessary
- Uncertainties are inherent and will always need to be managed

Key assertions

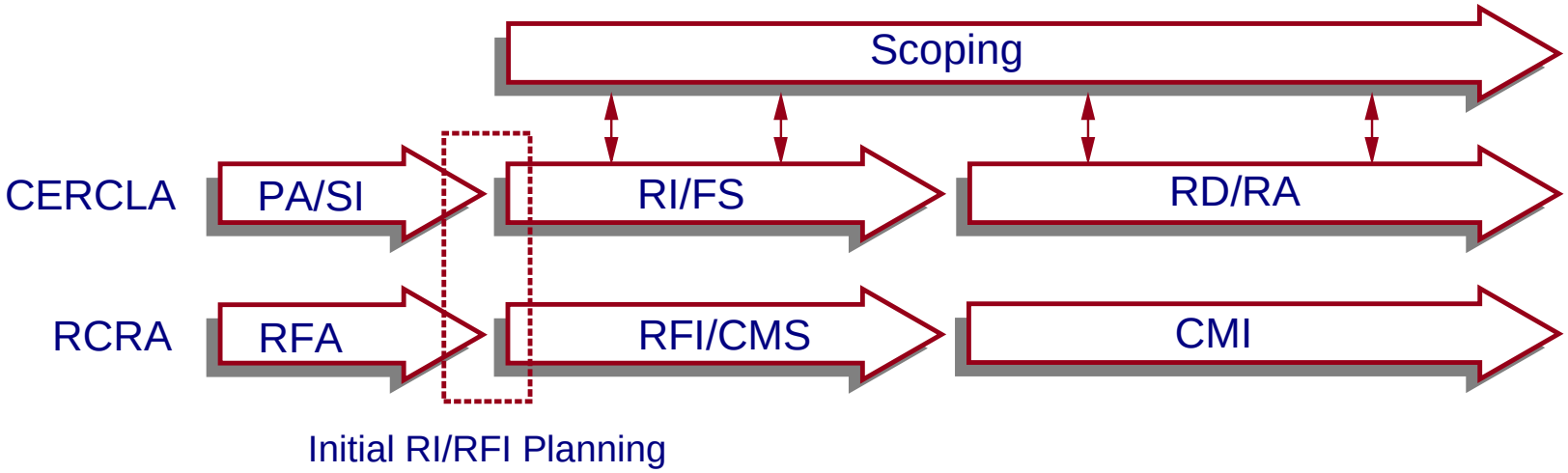
- Principles are implicit in the NCP and RCRA corrective action policies
- Adherence to the principles saves time and reduces costs
- Traditional "barriers" to streamlining can be overcome through teamwork and early consensus
- Proper focus of environmental restoration is implementing response actions
- All stakeholders want to achieve acceptable levels of risk

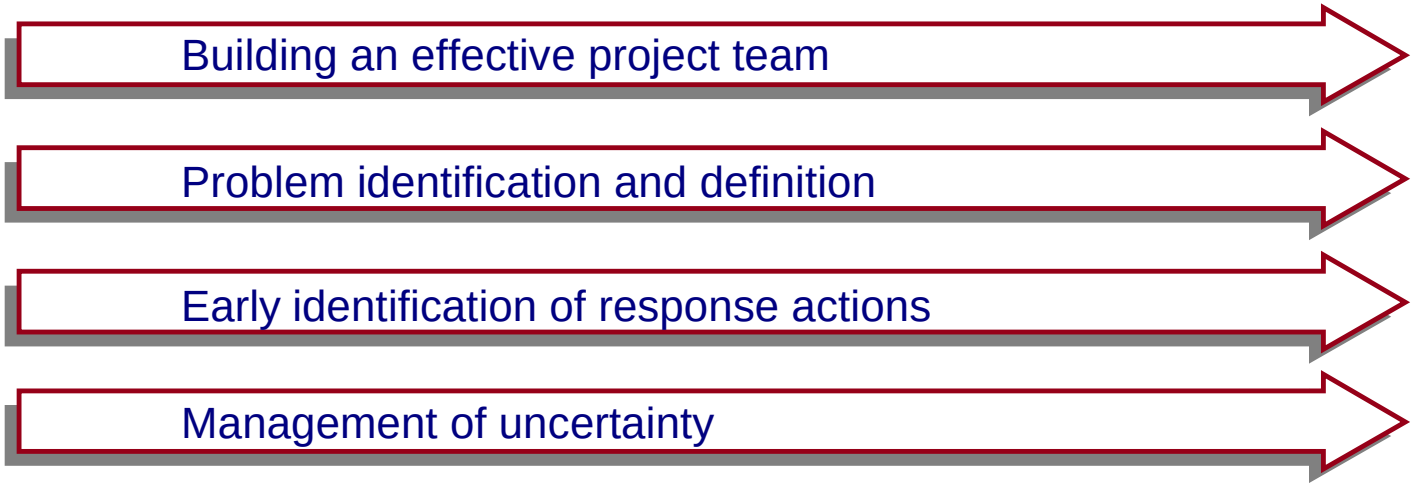
Interactions between the four principles



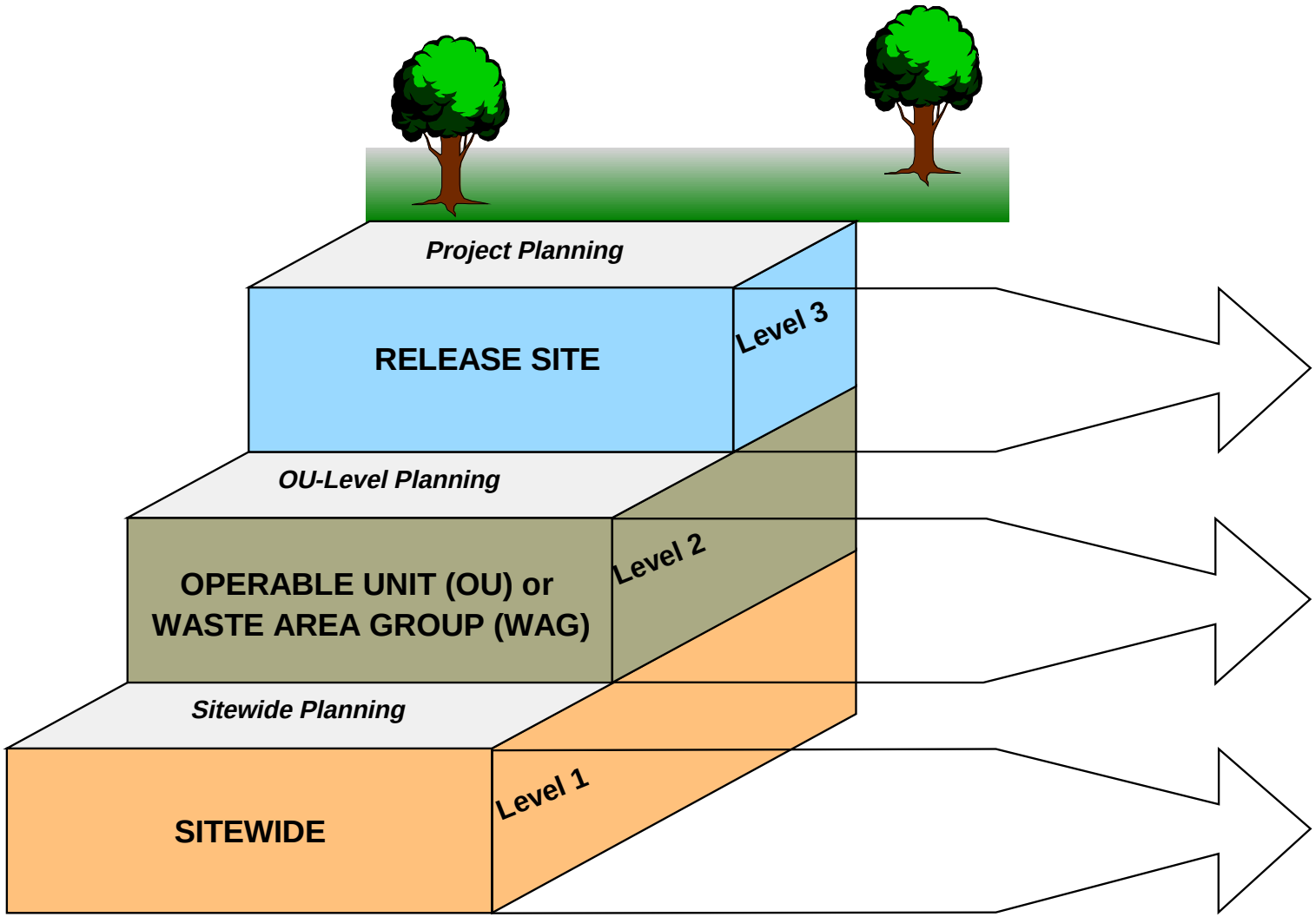
Timing

Traditional steps in the ER process





Applying the principles at different "activity" levels



Outcomes /Objectives

- Rapid decision on whether to take action and what kind of action
- Rapid identification of data needs

- Cost/schedule reduction
- Efficiencies of scale

- Coordination with other programs
- Strategic use of site resources